

Comparisons of Job Characteristics

Focus Occupation: [Engineers, All Other \(17-2199\)](#)

Associated Occupation: [Architectural and Civil Drafters \(17-3011\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 72

Focus Occupation: Engineers, All Other (17-2199)

Associated Occupation: Architectural and Civil Drafters (17-3011)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Design	5.2	21.0	16.5	<< Extensive education and/or training may be required
Building and Construction	4.0	15.5	6.6	<< Extensive education and/or training may be required
Engineering and Technology	5.7	15.2	20.1	>> Current knowledge level is likely more than sufficient
Mathematics	9.2	13.3	17.1	>> Current knowledge level is likely more than sufficient
Geography	3.9	7.9	3.2	<< Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 85

Focus Occupation: Engineers, All Other (17-2199)

Associated Occupation: Architectural and Civil Drafters (17-3011)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Mathematics	6.2	11.0	12.8	> Skill level is likely sufficient
Operations Analysis	5.0	8.0	10.8	>> Skill level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 96

Focus Occupation: Engineers, All Other (17-2199)
Associated Occupation: Architectural and Civil Drafters (17-3011)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Near Vision	11.1	13.3	12.4	0	Current ability level may be sufficient
Visualization	7.5	12.5	11.7	0	Current ability level may be sufficient
Information Ordering	9.9	11.5	13.2	>	Current ability level is likely sufficient
Mathematical Reasoning	6.3	10.1	13.4	>>	Current ability level is likely more than sufficient
Flexibility of Closure	7.8	9.4	9.9	0	Current ability level may be sufficient
Number Facility	6.3	8.5	11.6	>>	Current ability level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

There are no common work activities.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 57

Focus Occupation: Engineers, All Other (17-2199)
Associated Occupation: Architectural and Civil Drafters (17-3011)

Tools and Technologies	Exclusivity
Business function specific software	1
Calculating machines and accessories	3
Computer data input devices	2
Computer printers	2
Computers	1
Content authoring and editing software	1
Content management software	6
Data management and query software	1
Industry specific software	1
Information exchange software	1

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.